

EXHIBIT A

49. A polypeptide according to claim 83, wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxyl-terminus, or at both the amino-terminus and at the carboxyl-terminus.
50. A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxyl-terminus.
51. A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.
52. A polypeptide according to claim 51, wherein said polypeptide includes a methionine at the amino-terminus.
53. A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.
67. A pharmaceutical composition comprising a polypeptide of claim 69 and a pharmaceutically acceptable carrier.
68. A pharmaceutical composition comprising a polypeptide of claim 83 and a pharmaceutically acceptable carrier.
69. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is encoded by a DNA molecule selected from the group consisting of:
 - A) a DNA molecule comprising the sequence:

R² GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC
CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC
AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG
GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC
TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC
CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG
GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC
GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT
TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC
CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG
GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT
TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT
AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC
CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a DNA molecule comprising a sequence coding for a polypeptide which can be cleaved *in vivo*;

B) a DNA molecule comprising the sequence:

R² GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC
CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC
CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA
GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT
GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC
CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA
AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC
ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG
AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC
CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC
AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA
CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC
TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT
AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG
TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT
GAG GAC TCA GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or represents a DNA molecule coding for a polypeptide which can be cleaved *in vivo*;

- C) a DNA molecule comprising the sequence of A or B encoding at least one conservative amino acid substitution;
 - D) a DNA molecule comprising the sequence of A or B encoding at least one amino acid substitution at a glycosylation site;
 - E) a DNA molecule comprising the sequence of A or B encoding at least one amino acid substitution at a proteolytic cleavage site; and
 - F) a DNA molecule comprising the sequence of A or B encoding at least one amino acid substitution at a cysteine residue.
70. A polypeptide according to claim 69, wherein R^2 is a DNA molecule comprising a sequence which codes for a polypeptide which can be cleaved *in vivo*.
71. A polypeptide according to claim 69, wherein R^2 is a DNA molecule comprising the sequence: CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA, or a C- and/or N- terminally shortened sequence thereof.
72. A polypeptide according to claim 69, wherein R^2 is a DNA molecule encoding an amino acid sequence comprising: leu val pro his leu gly asp arg glu lys arg, or a C- and/or N- terminally shortened sequence thereof.
73. A polypeptide according to claim 70, wherein R^2 is a DNA molecule comprising the sequence: R^3 CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA, or a C- and/or N- terminally shortened sequence thereof, wherein R^3 is a DNA molecule coding for a signal peptide.
74. A polypeptide according to claim 70, wherein R^2 is a DNA molecule encoding an amino acid sequence comprising: R^3 leu val pro his leu gly asp arg glu lys arg, or

a C- and/or N- terminally shortened sequence thereof, wherein R³ is a DNA molecule coding for a signal peptide.

75. A polypeptide according to claim 73, wherein R³ is a DNA molecule comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC
TCA GGG GTT ATT GGA,

or a C- and/or N- terminally shortened sequence thereof.

76. A polypeptide according to claim 74, wherein R³ is a DNA molecule encoding an amino acid sequence comprising:

met gly leu ser thr val pro asp leu leu leu pro leu val
leu leu glu leu leu val gly ile tyr pro ser gly val ile
gly,

or a C- and/or N- terminally shortened sequence thereof.

78. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is encoded by a DNA molecule selected from the group consisting of:

A) a DNA molecule comprising the sequence:

CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT
AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA
AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA
ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG
GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC
ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC
TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG

ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT
GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT
GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC
CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA
CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT
CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT
AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC
CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

B) a DNA molecule comprising the sequence:

CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT
AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA
AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA
ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG
GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC
ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC
TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG
ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT
GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT
GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC
CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA
CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT
CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT
AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC
CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC
ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

C) a DNA molecule comprising the sequence:

GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT
CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA
GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG
CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC
TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC
AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG

GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG
TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG
AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC
TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG
AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC
TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC
TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA
CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

D) a DNA molecule comprising the sequence:

GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT
CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA
GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG
CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC
TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC
AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG
GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG
TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG
AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC
TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG
AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC
TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC
TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA
CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA
GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

E) a DNA molecule comprising the sequence of A, B, C or D encoding at least one conservative amino acid substitution;

F) a DNA molecule comprising the of A, B, C or D encoding at least one amino acid substitution at a glycosylation site;

G) a DNA molecule comprising the of A, B, C or D encoding at least one amino acid substitution at a proteolytic cleavage site; and

H) a DNA molecule comprising the of A, B, C or D encoding at least one amino acid substitution at a cysteine residue.

80. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is encoded by a DNA molecule selected from the group consisting of:

A) a DNA molecule comprising the sequence:

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ATG CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA
GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT
CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA
GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG
CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC
TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC
AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG
GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG
TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG
AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC
TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG
AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC
TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC
TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA
CCC CAG ATT GAG AAT,
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or a C- and/or N- terminally shortened sequence thereof;

B) a DNA molecule comprising the sequence:

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ATG CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA
GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT
CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA
GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG
CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC
TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC
AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG
GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG
TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG
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AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC
TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG
AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC
TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC
TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA
CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA
GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

C) a DNA molecule comprising the sequence:

ATG GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC
CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC
AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG
GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC
TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC
CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG
GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC
GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT
TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC
CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG
GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT
TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT
AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC
CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

D) a DNA molecule comprising the sequence:

ATG GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC
CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC
AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG
GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC
TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC
CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG
GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC
GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT
TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC
CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG

GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT
TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT
AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC
CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC
TCA GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

E) a DNA molecule comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC
TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC
AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA
TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC
AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT
CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT
GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC
AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA
ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC
CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC
CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC
AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC
TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC
CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC
TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG
AAG TTG TGC CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

F) a DNA molecule comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC
TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC
AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA
TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC
AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT
CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT
GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC
AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA

ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC
CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC
CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC
AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC
TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC
CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC
TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG
AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC
ACT GAG GAC TCA GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

G) a DNA molecule comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC
TCA GGG GTT ATT GGA GAT AGT GTG TGT CCC CAA GGA
AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT
ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC
TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG
TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC
CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG
GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG
GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG
TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC
TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC
CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC
TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT
GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC
ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

H) a DNA molecule comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC
TCA GGG GTT ATT GGA GAT AGT GTG TGT CCC CAA GGA
AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT
ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC

TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG
TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC
CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG
GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG
GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG
TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC
TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC
CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC
TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT
GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC
ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG
GGC ACT GAG GAC TCA GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

I) a DNA molecule comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC
TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC
AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA
TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC
AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT
CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT
GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC
AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA
ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC
CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC
CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC
AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC
TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC
CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC
TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG
AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC
ACT GAG GAC TCA GGC ACC ACA GTG CTG TTG CCC CTG
GTC ATT TTC TTT GGT CTT TGC CTT TTA TCC CTC CTC
TTC ATT GGT TTA ATG TAT CGC TAC CAA CGG TGG AAG
TCC AAG CTC TAC TCC ATT GTT TGT GGG AAA TCG ACA
CCT GAA AAA GAG GGG GAG CTT GAA GGA ACT ACT ACT
AAG CCC CTG GCC CCA AAC CCA AGC TTC AGT CCC ACT
CCA GGC TTC ACC CCC ACC CTG GGC TTC AGT CCC GTG
CCC AGT TCC ACC TTC ACC TCC AGC TCC ACC TAT ACC
CCC GGT GAC TGT CCC AAC TTT GCG GCT CCC CGC AGA

GAG GTG GCA CCA CCC TAT CAG GGG GCT GAC CCC ATC
CTT GCG ACA GCC CTC GCC TCC GAC CCC ATC CCC AAC
CCC CTT CAG AAG TGG GAG GAC AGC GCC CAC AAG CCA
CAG AGC CTA GAC ACT GAT GAC CCC GCG ACG CTG TAC
GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAG
GAA TTC GTG CGG CGC CTA GGG CTG AGC GAC CAC GAG
ATC GAT CGG CTG GAG CTG CAG AAC GGG CGC TGC CTG
CGC GAG GCG CAA TAC AGC ATG CTG GCG ACC TGG AGG
CGG CGC ACG CCG CGG CGC GAG GCC ACG CTG GAG CTG
CTG GGA CGC GTG CTC CGC GAC ATG GAC CTG CTG GGC
TGC CTG GAG GAC ATC GAG GAG GCG CTT TGC GGC CCC
GCC GCC CTC CCG CCC GCG CCC AGT CTT CTC AGA,

or a C- and/or N- terminally shortened sequence thereof;

J) a DNA molecule comprising the sequence of A, B, C, D, E, F, G, H or I encoding at least one conservative amino acid substitution;

K) a DNA molecule comprising the sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a glycosylation site;

L) a DNA molecule comprising the sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a proteolytic cleavage site; and

M) a DNA molecule comprising the sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a cysteine residue.

82. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, characterized in that the polypeptide is encoded by a nucleic acid which hybridizes with DNA complementary to the DNA defined in claim 69 under conditions of moderate stringency.

83. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is selected from the group consisting of:

A) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| R ² | asp | ser | val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn |
| | asn | ser | ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu |
| | tyr | asn | asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg |
| | glu | cys | glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu |
| | arg | his | cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly |
| | gln | val | glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val |
| | cys | gly | cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu |
| | asn | leu | phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly |
| | thr | val | his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys |
| | thr | cys | his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val |
| | ser | cys | ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu |
| | cys | leu | pro | gln | ile | glu | asn, | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a polypeptide which can be cleaved *in vivo*;

B) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | | |
|----------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| R ² | asp | ser | val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn |
| | asn | ser | ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu |
| | tyr | asn | asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg |
| | glu | cys | glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu |
| | arg | his | cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly |
| | gln | val | glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val |
| | cys | gly | cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu |
| | asn | leu | phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly |
| | thr | val | his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys |
| | thr | cys | his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val |
| | ser | cys | ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu |
| | cys | leu | pro | gln | ile | glu | asn | val | lys | gly | thr | glu | asp | ser |
| | gly | thr | thr, | | | | | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a polypeptide which can be cleaved *in vivo*;

C) a polypeptide comprising the amino acid sequence of A or B with at least one conservative amino acid substitution;

D) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a glycosylation site;

E) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a proteolytic cleavage site; and

F) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a cysteine residue.

84. A polypeptide according to claim 83, wherein R^2 is a polypeptide comprising an amino acid sequence which can be cleaved *in vivo*.

85. A polypeptide according to claim 84, wherein R^2 is a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| met | gly | leu | ser | thr | val | pro | asp | leu | leu | leu | pro | leu | val |
| leu | leu | glu | leu | leu | val | gly | ile | tyr | pro | ser | gly | val | ile |

gly,

or a C- and/or N- terminally shortened sequence thereof.

95. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, characterized in that the polypeptide is encoded by a nucleic acid which hybridizes with DNA complementary to the DNA defined in claim 83 under conditions of moderate stringency.

96. A polypeptide according to claim 83, wherein said polypeptide is selected from the group consisting of:

A) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| asp | ser | val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn |
| asn | ser | ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu |
| tyr | asn | asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg |
| glu | cys | glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu |
| arg | his | cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly |
| gln | val | glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val |
| cys | gly | cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu |
| asn | leu | phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly |
| thr | val | his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys |
| thr | cys | his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val |
| ser | cys | ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu |
| cys | leu | pro | gln | ile | glu | asn, | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

B) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| leu | val | pro | his | leu | gly | asp | arg | glu | lys | arg | asp | ser | val |
| cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn | asn | ser | ile |
| cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu | tyr | asn | asp |
| cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg | glu | cys | glu |
| ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu | arg | his | cys |
| leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly | gln | val | glu |
| ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val | cys | gly | cys |
| arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu | asn | leu | phe |
| gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly | thr | val | his |
| leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys | thr | cys | his |
| ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val | ser | cys | ser |
| asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu | cys | leu | pro |
| gln | ile | glu | asn, | | | | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

C) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| asp | ser | val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn |
| asn | ser | ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu |

| | | | | | | | | | | | | | |
|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| tyr | asn | asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg |
| glu | cys | glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu |
| arg | his | cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly |
| gln | val | glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val |
| cys | gly | cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu |
| asn | leu | phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly |
| thr | val | his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys |
| thr | cys | his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val |
| ser | cys | ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu |
| cys | leu | pro | gln | ile | glu | asn | val | lys | gly | thr | glu | asp | ser |
| gly | thr | thr, | | | | | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

D) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| leu | val | pro | his | leu | gly | asp | arg | glu | lys | arg | asp | ser | val |
| cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn | asn | ser | ile |
| cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu | tyr | asn | asp |
| cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg | glu | cys | glu |
| ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu | arg | his | cys |
| leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly | gln | val | glu |
| ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val | cys | gly | cys |
| arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu | asn | leu | phe |
| gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly | thr | val | his |
| leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys | thr | cys | his |
| ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val | ser | cys | ser |
| asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu | cys | leu | pro |
| gln | ile | glu | asn | val | lys | gly | thr | glu | asp | ser | gly | thr | thr, |

or a C- and/or N- terminally shortened sequence thereof;

E) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one conservative amino acid substitution;

F) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a glycosylation site;

G) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a proteolytic cleavage site; and

H) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a cysteine residue.

102. A polypeptide according to claim 96, wherein said polypeptide is not associated with human urinary proteins.

103. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is selected from the group consisting of:

A) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| met | asp | ser | val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln |
| asn | asn | ser | ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr |
| leu | tyr | asn | asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys |
| arg | glu | cys | glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his |
| leu | arg | his | cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met |
| gly | gln | val | glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr |
| val | cys | gly | cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser |
| glu | asn | leu | phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn |
| gly | thr | val | his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val |
| cys | thr | cys | his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys |
| val | ser | cys | ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys |
| leu | cys | leu | pro | gln | ile | glu | asn, | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

B) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| met | leu | val | pro | his | leu | gly | asp | arg | glu | lys | arg | asp | ser |
| val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn | asn | ser |
| ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu | tyr | asn |
| asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg | glu | cys |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu | arg | his |
| cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly | gln | val |
| glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val | cys | gly |
| cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu | asn | leu |
| phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly | thr | val |
| his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys | thr | cys |
| his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val | ser | cys |
| ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu | cys | leu |
| pro | gln | ile | glu | asn, | | | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

C) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| met | asp | ser | val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln |
| asn | asn | ser | ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr |
| leu | tyr | asn | asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys |
| arg | glu | cys | glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his |
| leu | arg | his | cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met |
| gly | gln | val | glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr |
| val | cys | gly | cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser |
| glu | asn | leu | phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn |
| gly | thr | val | his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val |
| cys | thr | cys | his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys |
| val | ser | cys | ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys |
| leu | cys | leu | pro | gln | ile | glu | asn | val | lys | gly | thr | glu | asp |
| ser | gly | thr | thr, | | | | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

D) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| met | leu | val | pro | his | leu | gly | asp | arg | glu | lys | arg | asp | ser |
| val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn | asn | ser |
| ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu | tyr | asn |
| asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg | glu | cys |
| glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu | arg | his |
| cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly | gln | val |
| glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val | cys | gly |
| cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu | asn | leu |
| phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly | thr | val |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys | thr | cys |
| his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val | ser | cys |
| ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu | cys | leu |
| pro | gln | ile | glu | asn | val | lys | gly | thr | glu | asp | ser | gly | thr |

thr,

or a C- and/or N- terminally shortened sequence thereof;

E) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| met | gly | leu | ser | thr | val | pro | asp | leu | leu | leu | pro | leu | val |
| leu | leu | glu | leu | leu | val | gly | ile | tyr | pro | ser | gly | val | ile |
| gly | leu | val | pro | his | leu | gly | asp | arg | glu | lys | arg | asp | ser |
| val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn | asn | ser |
| ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu | tyr | asn |
| asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg | glu | cys |
| glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu | arg | his |
| cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly | gln | val |
| glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val | cys | gly |
| cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu | asn | leu |
| phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly | thr | val |
| his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys | thr | cys |
| his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val | ser | cys |
| ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu | cys | leu |

pro glu asn,

or a C- and/or N- terminally shortened sequence thereof;

F) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| met | gly | leu | ser | thr | val | pro | asp | leu | leu | leu | pro | leu | val |
| leu | leu | glu | leu | leu | val | gly | ile | tyr | pro | ser | gly | val | ile |
| gly | leu | val | pro | his | leu | gly | asp | arg | glu | lys | arg | asp | ser |
| val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn | asn | ser |
| ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu | tyr | asn |
| asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg | glu | cys |
| glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu | arg | his |
| cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly | gln | val |
| glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val | cys | gly |
| cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu | asn | leu |
| phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly | thr | val |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys | thr | cys |
| his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val | ser | cys |
| ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu | cys | leu |
| pro | gln | ile | glu | asn | val | lys | gly | thr | glu | asp | ser | gly | thr |

thr,

or a C- and/or N- terminally shortened sequence thereof;

G) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| met | gly | leu | ser | thr | val | pro | asp | leu | leu | leu | pro | leu | val |
| leu | leu | glu | leu | leu | val | gly | ile | tyr | pro | ser | gly | val | ile |
| gly | asp | ser | val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln |
| asn | asn | ser | ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr |
| leu | tyr | asn | asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys |
| arg | glu | cys | glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his |
| leu | arg | his | cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met |
| gly | gln | val | glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr |
| val | cys | gly | cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser |
| glu | asn | leu | phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn |
| gly | thr | val | his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val |
| cys | thr | cys | his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys |
| val | ser | cys | ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys |
| leu | cys | leu | pro | gln | ile | glu | asn, | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

H) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| met | gly | leu | ser | thr | val | pro | asp | leu | leu | leu | pro | leu | val |
| leu | leu | glu | leu | leu | val | gly | ile | tyr | pro | ser | gly | val | ile |
| gly | asp | ser | val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln |
| asn | asn | ser | ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr |
| leu | tyr | asn | asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys |
| arg | glu | cys | glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his |
| leu | arg | his | cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met |
| gly | gln | val | glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr |
| val | cys | gly | cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser |
| glu | asn | leu | phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn |
| gly | thr | val | his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val |
| cys | thr | cys | his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys |

| | | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| val | ser | cys | ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys |
| leu | cys | leu | pro | gln | ile | glu | asn | val | lys | gly | thr | glu | asp |
| ser | gly | thr | thr, | | | | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

I) a polypeptide comprising the amino acid sequence:

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| met | gly | leu | ser | thr | val | pro | asp | leu | leu | leu | pro | leu | val |
| leu | leu | glu | leu | leu | val | gly | ile | tyr | pro | ser | gly | val | ile |
| gly | leu | val | pro | his | leu | gly | asp | arg | glu | lys | arg | asp | ser |
| val | cys | pro | gln | gly | lys | tyr | ile | his | pro | gln | asn | asn | ser |
| ile | cys | cys | thr | lys | cys | his | lys | gly | thr | tyr | leu | tyr | asn |
| asp | cys | pro | gly | pro | gly | gln | asp | thr | asp | cys | arg | glu | cys |
| glu | ser | gly | ser | phe | thr | ala | ser | glu | asn | his | leu | arg | his |
| cys | leu | ser | cys | ser | lys | cys | arg | lys | glu | met | gly | gln | val |
| glu | ile | ser | ser | cys | thr | val | asp | arg | asp | thr | val | cys | gly |
| cys | arg | lys | asn | gln | tyr | arg | his | tyr | trp | ser | glu | asn | leu |
| phe | gln | cys | phe | asn | cys | ser | leu | cys | leu | asn | gly | thr | val |
| his | leu | ser | cys | gln | glu | lys | gln | asn | thr | val | cys | thr | cys |
| his | ala | gly | phe | phe | leu | arg | glu | asn | glu | cys | val | ser | cys |
| ser | asn | cys | lys | lys | ser | leu | glu | cys | thr | lys | leu | cys | leu |
| pro | gln | ile | glu | asn | val | lys | gly | thr | glu | asp | ser | gly | thr |
| thr | val | leu | leu | pro | leu | val | ile | phe | phe | gly | leu | cys | leu |
| leu | ser | leu | leu | phe | ile | gly | leu | met | tyr | arg | tyr | gln | arg |
| trp | lys | ser | lys | leu | tyr | ser | ile | val | cys | gly | lys | ser | thr |
| pro | glu | lys | glu | gly | glu | leu | glu | gly | thr | thr | thr | lys | pro |
| leu | ala | pro | asn | pro | ser | phe | ser | pro | thr | pro | gly | phe | thr |
| pro | thr | leu | gly | phe | ser | pro | val | pro | ser | ser | thr | phe | thr |
| ser | ser | ser | thr | tyr | thr | pro | gly | asp | cys | pro | asn | phe | ala |
| ala | pro | arg | arg | glu | val | ala | pro | pro | tyr | gln | gly | ala | asp |
| pro | ile | leu | ala | thr | ala | leu | ala | ser | asp | pro | ile | pro | asn |
| pro | leu | gln | lys | trp | glu | asp | ser | ala | his | lys | pro | gln | ser |
| leu | asp | thr | asp | asp | pro | ala | thr | leu | tyr | ala | val | val | glu |
| asn | val | pro | pro | leu | arg | trp | lys | glu | phe | val | arg | arg | leu |
| gly | leu | ser | asp | his | glu | ile | asp | arg | leu | glu | leu | gln | asn |
| gly | arg | cys | leu | arg | glu | ala | gln | tyr | ser | met | leu | ala | thr |
| trp | arg | arg | arg | thr | pro | arg | arg | glu | ala | thr | leu | glu | leu |
| leu | gly | arg | val | leu | arg | asp | met | asp | leu | leu | gly | cys | leu |
| glu | asp | ile | glu | glu | ala | leu | cys | gly | pro | ala | ala | leu | pro |
| pro | ala | pro | ser | leu | leu | arg, | | | | | | | |

or a C- and/or N- terminally shortened sequence thereof;

J) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one conservative amino acid substitution;

K) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a glycosylation site;

L) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a proteolytic cleavage site; and

M) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a cysteine residue.

107. A polypeptide according to claim 103, wherein said polypeptide is chemically derivatized.

108. A polypeptide having the ability to bind to TNF comprising an amino acid sequence as set forth in one of claims 69, 78, 80, 83, 96 or 103 with at least one conservative amino acid substitution.

109. A polypeptide according to claim 108, wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxyl-terminus, or at both the amino-terminus and at the carboxyl-terminus.

110. A polypeptide according to claim 109, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxyl-terminus.

111. A polypeptide according to claim 108, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.

112. A polypeptide according to claim 111, wherein said polypeptide includes a methionine at the amino-terminus.

113. A polypeptide according to claim 109, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.

114. A polypeptide according to claim 108, wherein said polypeptide includes a methionine at the amino-terminus and said amino acid substitution is at a glycosylation site.

115. A polypeptide according to claim 108, wherein said amino acid substitution is at a glycosylation site.